

Name : Dr Rishi Rana

Designation : Assistant Professor (Senior Grade)

Biography:

Completed B.Tech from Panjab Technical University, Jalandhar in 2009. Have completed M.E in Environmental Engineering from PEC University of Technology, Chandigarh in 2011. Completed doctorate in Civil Engineering with Specialization in Environmental Engineering from Jaypee University of Information Technology, Solan, Wagnaghat. Have published papers in reputed SCI/Scopus Journals and International/ National Conferences.

All info below in box only

PHOTOGRAPH OF FACULTY



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Educational Info

Specialization / Discipline	College/University/Institute	Year of Passing	Percentage/ CGPA
10 th	CBSE	2003	73.8%
12 th	CBSE	2005	60%
B. Tech	Punjab Technical University Jalandhar	2009	75.45%
M. Tech Environmental Engineering	PEC University of Information Technology	2011	7.4/10
Ph.D. Civil/ Environmental Engineering	Jaypee University of Information Technology, Solan, Wagnaghat	2017	-

Research Areas: Solid waste management, Water and Waste water, Environmental Monitoring and Pollution, Life Cycle Assessment, Environmental Engineering.

PhD / M.Tech. Students (past and existing – both at JUIT W only): 1

Proposed Project Topics:

1. Application of Google Earth in solid waste management for developing waste management plan and studying waste dumpsites
2. An IOT based innovative real time pH monitoring and control of Municipal waste water for agriculture and gardening
3. A minimalist model of IOT based sensor system for sewage treatment plant monitoring
4. Assessment of waste to energy modelling in Himachal Pradesh
5. Artificial Intelligence in environment friendly shale energy resource extraction
6. Experimental studies on treatment of synthetic and industrial organic waste electrochemical technique.

Courses

1. Sewage Treatment and Disposal
2. Solid Waste Management
3. Environmental Science
4. EIA and Impact Assessment
5. Water Supply Engineering
6. Environmental Management and Impact Assessment
7. Workshop Practices
8. Environmental Engineering Lab
9. Computer Applications in Environmental Engineering Lab

Publications

Rishi Rana, Rajiv Ganguly (2020). Water Quality Indices: challenges and applications – an overview.. *Arabian Journal of Geosciences*, 13 (Article ID:1190), 1-11. Google Citation

Rishi Rana, Rajiv Ganguly (2020). Hazardous Waste and its Associated Health Risks . In Gabriella Marfe and Carla Di Stefano, *Hazardous Waste Management and Health Risks* (pp. 51-61). : Bentham Science Publications. [ISBN : 978-981-14-5474-5] . Google Search

Aman Sharma, Rishi Rana (2020). Analysis and Visualization of Twitter Data using R. *2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC)*.

Rana, Rishi., Ganguly, Rajiv., Gupta A.K., “An Assessment of Solid Waste Management System in Chandigarh City, India”, *Electronic Journal of Geotechnical Engineering*, 20 (6), 1547- 1572, 2015. <http://www.ejge.com/2015/Ppr2015.0229me.pdf> [Scopus Indexed]

Rishi Rana, Rajiv Ganguly, Ashok Kumar Gupta (2019). Evaluation of Heavy Metal Pollution Index (HPI) for Ground Water in Tricity. *Proceedings of the International Conference on Sustainable Waste Management towards Circular Economy (9th IconSWM-CE 2019)* [9th : Kalinga Institute of Industrial Technology (KIIT), New Bhubaneswar, Odisha, India. : November 27-30, 2019], pp.-

.. **Google Citation** Rishi Rana, Disha Thakur (2019). From Waste to Wealth: Solid Waste Management for Enhancement of Agricultural Productivity in Himachal Pradesh, India. *Proceedings of the International Conference on Sustainable Waste Management towards Circular Economy (9th IconSWM-CE 2019)* [9th : Kalinga Institute of Industrial Technology (KIIT), New Bhubaneswar, Odisha, India. : November 27-30, 2019] R. Ganguly, G. S. D. Sharma and R. Rana, "Mapping of MODIS satellite data with ground level particulate matter concentration - a case study for Shimla," *2019 Fifth International Conference on Image Information Processing (ICIIP)*, Shimla, India, 2019, pp. 497-502, doi: 10.1109/ICIIP47207.2019.8985875.

Rohit Kumar, Samarth Sharda, Shivam Gupta, A.K. Gupta, Rishi Rana (2019). Quality Assessment of Surface and Groundwater in parts of District Patiala, Punjab, India. *Proceedings of National Seminar on Unnat Bharat Abhiyan: Prospects and Challenges, NITTTR, Chandigarh, 28-29 November, 2019.*

Rana, Rishi., Ganguly, Rajiv., Gupta, A.K., “Evaluation of Solid Waste Management in Satellite Towns of Mohali and Panchkula- India”. *The Journal of Solid Waste Technology and Management*,

43(4), 280-294, 2017. <http://solid-waste.org/journal/abstracts-of-published-papers/volume-43-issue-1/#abstract43.4.2> [Scopus Indexed]

Rana, Rishi., Ganguly, Rajiv., Gupta, A.K., “*Physico-Chemical Characterization of Municipal Solid Waste from Tri-city region of Northern India- A case study*”, The Journal of Material Cycles and Waste Management, DOI 10.1007/s10163-017-0615-3,2017 <https://link.springer.com/article/10.1007/s10163-017-0615-3> [Springer, SCI Indexed, Impact Factor (2016/2017)-1.604]

Rana, Rishi., Ganguly, Rajiv., Gupta, A.K., “*Chemical and Toxicological assessment of leachate generated from non-engineered landfill sites*”, Waste Management, Elsevier Publication, 2017. (Under Review).

Rana, Rishi., Ganguly, Rajiv., and Gupta A.K., “*Indexing method for assessment of pollution potential of leachate from non-engineered landfill sites and its effect on ground water quality*”, Environmental Monitoring and Pollution, 190(1), Article ID 46, 2017.). <https://link.springer.com/article/10.1007/s10661-017-6417-1> [Springer, SCI Indexed, Impact Factor (2016/2017)-1.687]

Rana, Rishi., Ganguly, Rajiv., Gupta, A.K., “*Life Cycle Assessment of MSW in Tricity*”. Journal of Material Cycle and Waste Management, Springer Publication, 2017.

Rana, Rishi., Ganguly, Rajiv., and Gupta A.K., “*Solid Waste Management in Chandigarh City: a case study*”, Journal of Civil Engineering and Environmental Technology, 1 (4), 67-70, 2014. Google Citation.

Rana, Rishi., Ganguly, Rajiv., and Gupta A.K., “*Impact of Leachate from non-engineered landfill sites on ground water quality: a case study in Northern India*”, Proceedings of the International Conference on Trends and Recent Advances in Civil Engineering (TRACE), Amity University, Noida, India, August 11-12, 11-14, 2016. Google Citation.

ICER-11 Journal of Environmental Research and Development (JERAD) at Sardar Vallabhbhai National Institute of Technology (SVNIT).

ICBEE-2011, China. International Conference on Chemical, Biological and Environmental Engineering (ICBEE 2011)